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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DO GUE	
10/032,564	01/02/2002		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,304	01/02/2002	Yasutoshi Okuno	740819-725 5824	
22204	7590 10/17/2002	·		
NIXON PEA	BODY, LLP			
8180 GREENS	SBORO DRIVE		EXAMINER	
SUITE 800 MCLEAN, VA 22102			ESTRADA, MICHELLE	
			ART UNIT	PAPER NUMBER
			2823	
		DATE MAIL ED: 10/17/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary					
		10/032,564	OKUNO ET AL.		
		Examiner	Art Unit		
	The MAILING DATE of this communication app	Michelle Estrada	2823		
Period fo	or Reply	cars on the cover sheet with the t	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any  Status					
1)[	Responsive to communication(s) filed on <u>06 A</u>	ugust 2002 .			
2a)⊠	This action is <b>FINAL</b> . 2b) Thi	s action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
	Claim(s) <u>1-10</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents				
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(					
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) stent Application (PTO-152)		
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Choi et al. (6,168,991) and Pan (5,571,746).

Choi et al. disclose a method for fabricating a semiconductor device including a concaved capacitor device having a lower electrode (20), a capacitor dielectric film (22) of a perovskite type high dielectric constant or ferroelectric material formed on said lower electrode and an upper electrode (26) formed on said capacitor dielectric film, comprising a step of: forming a conducting film to be formed into said lower electrode including sub-steps of: depositing a lower conducting (20) film by sputtering on walls and a bottom of a recess formed in an insulating film (12) on a substrate (10); and depositing an upper conducting film (26) on said lower conducting film by CVD (See Col. 4, lines 47-51 and Col. 6, lines 22-32); wherein said lower conducting film has a thickness of approximately 300Å to 500 Å; wherein said capacitor device is a stacked capacitor device; wherein the CVD could be carried out in an oxidizing atmosphere, because the materials of the upper electrode could be oxides (Col. 5, lines 14-17).

Choi et al. does not disclose depositing the upper conducting film directly on said lower conducting film.

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Pan discloses forming a capacitor comprising a lower conducting film (20) and an upper conducting film (21) formed directly above said lower conducting film (See claim 9).

It would have been within the scope of one of ordinary skill in the art to combine the teachings of Choi et al. and Pan to enable formation of the capacitor and further capacitors have high degree of linearity.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is (703) 308-0729. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

MEstrada

October 9, 2002

LONG PHAM PRIMARY EXAMINER